



SLOVENSKI STANDARD
SIST EN 2100:2001
01-januar-2001

Aerospace series - Aluminium alloy AL-P2014A T4511 - Extruded bars and sections a or D < or = 200 mm

Aerospace series - Aluminium alloy AL-P2014A T4511 - Extruded bars and sections a or D < or = 200 mm

Luft- und Raumfahrt - Aluminiumlegierung AL-P2014A T4511 - Stranggepreßte Stangen und Profile a oder D < oder = 200 mm

Série aérospatiale - Alliage d'aluminium AL-P2014A T4511 - Barres et profilés filés a ou D < ou = 200 mm

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Ta slovenski standard je istoveten z: EN 2100:1992

ICS:

49.025.20 Aluminij Aluminium

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2100

September 1992

UDC : 669.715-42:629.7

Key words : Aircraft industry, metal bars, metal sections, aluminium alloys, specifications, chemical composition, dimensions, characteristics

English version

Aerospace series
Aluminium alloy AL-P2014A
T4511
Extruded bars and sections
a or D \leq 200 mm

Série aérospatiale
Alliage d'aluminium AL-P2014A
T4511

Barres et profilés filés
a ou D \leq 200 mm

Luft- und Raumfahrt
Aluminiumlegierung AL-P2014A
T4511

Stranggepreßte Stangen und Profile
a oder D \leq 200 mm

SIST EN 2100:2001

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat : Rue de Stassart, 36, B-1050 Bruxelles

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 1993, and conflicting national standards shall be withdrawn at the latest by March 1993.

In accordance with the Common CEN/CENELEC Rules the following countries are bound to implement this European Standard : Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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0 Introduction

For the use of this standard, see EN 2500-2.

1 Scope

This standard specifies the requirements relating to extruded bars and sections in aluminium alloy AL-P2014A, for use in the T4511 ¹⁾ condition, a or D ≤ 200 mm, for aerospace applications.

This standard may also be used to supply material in the T4510 condition, if the purchaser specifies this condition on the order. In this case the designation of line 97 shall not be used.

2 References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- EN 2047 Beaded L-section aluminium alloy extrusions - Dimensions - Aerospace series ²⁾
- EN 2048 L-section aluminium alloy extrusions - Dimensions - Aerospace series ²⁾
- EN 2049 Channel section aluminium alloy extrusions - Dimensions - Aerospace series ²⁾
- EN 2050 T-section aluminium alloy extrusions - Dimensions - Aerospace series ²⁾
- EN 2070-3 Aerospace series - Aluminium and aluminium alloy wrought products - Technical specification - Part 3 - Bars and sections
- EN 2134 Round aluminium alloy bars - Dimensions - Aerospace series ²⁾
- EN 2341 Aluminium and aluminium alloy square and rectangular extruded bars - Dimensions - Aerospace series ²⁾
- EN 2500-2 Aerospace series - Instructions for the drafting and use of metallic material standards - Part 2 - Specific requirements for aluminium, aluminium alloys and magnesium alloys ³⁾
- EN 2600 Aerospace series - Designation of metallic semi-finished products - Rules ³⁾.

1) Formerly incompletely designated as T451.

2) Published as AECMA standard at the date of publication of this standard.

3) Published as AECMA pre-standard at the date of publication of this standard.

1		Aluminium alloy AL-P2014A														
2	Chemical composition %	Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti+Zr	Ti	Others		Al Base	
		min.	0,50	-	3,9	0,40	0,20	-	-	-	-	-	-	-		-
		max.	0,9	0,50	5,0	1,2	0,8	0,10	0,10	0,25	0,20	0,15	0,05	0,15		
3		Method of melting														
4		Form Method of production Limit dimensions (mm)														
5		5.1 Technical specification														
5.2		Dimensional standards														
6		6.1 Delivery condition and heat treatment														
6.2		Delivery condition code														
7		Use condition and heat treatment														
8		Sample Test piece Heat treatment														
9		Dimensions concerned														
10		Thickness of cladding on each face														
11		Direction of test piece														
12		Temperature														
13		Proof stress														
14		Strength														
15		Elongation														
16		Reduction of area														
17		Hardness														
18		Shear strength														
19		Bending														
20		Impact strength														
21		Temperature														
22		Time														
23		Stress														
24		Elongation														
25		Rupture stress														
26		Elongation at rupture														
27		Notes (see line 98)														

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Characteristics

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Use condition: T4511

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mm	a ≤ 2,5	2,5 < a ≤ 10	10 < a or D ≤ 25	25 < a or D ≤ 75	75 < a or D ≤ 150 ¹⁾	150 < a or D ≤ 200 ¹⁾
9						

1), 2)

44	External defects	-	See EN 2070-3	
51	Macrostructure	7	Back end defects : see EN 2070-3	
61	Internal defects	-	See EN 2070-3	
82	Batch uniformity	1	See EN 2070-3	
		7	Electrical conductivity	$\gamma = 18,5 \text{ MS/m}$ (typical value)
			or	
		7	Hardness	115 HB (typical value)
			$\delta \leq 16 \text{ HB per product}$	$\Delta \leq 24 \text{ HB per batch}$
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97	Designation		For extruded bars, see EN 2600. For extruded sections, see relevant drawing.	
98	Notes		1) Bar only 2) or $A_{50 \text{ mm}} \geq 10\%$	
99	Typical use			